

INFO 361-500
OPERATIONS PLANNING AND CONTROL
SPRING 2001

Class Hours: 5:45 – 7:00 MW

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Course Web page: http://www-info.tamu.edu/faculty/h-uster/info361/		

COURSE DESCRIPTION AND OBJECTIVES

The first part of the course provides a detailed review and critique of traditional operations management techniques, including inventory control models, MRP and JIT. The second part of the course is based on a system of manufacturing laws called *Factory Physics*. The laws state the relationships between several system performance measures such as throughput, cycle time, work-in-process, customer service, variability, and quality. *Factory Physics* employs a systems approach (holistic view) and provides a framework for evaluating traditional operations management techniques as well as evolving new strategies. The objective is to equip the production systems analyst with powerful tools and provide him/her intuitive and insightful means to understand the behavior of a production system, and eventually to improve the system performance.

COURSE PREREQUISITE

A prerequisite for this course is INFO 364 – Operations Management.

REQUIRED TEXTBOOK

Factory Physics: Foundations of Manufacturing Management,
by Wallace J. Hopp and Mark L. Spearman, 2nd Edition, 2000, McGraw-Hill Co.
and

The Goal: A Process of Ongoing Improvement,
by Eliyahu M. Goldratt, Jeff Cox, 2nd Edition, 1992, North River Press, Inc.

EVALUATION

1. Two in-class exams will be given during the semester, and a third exam will be given on the final exam date. Each exam is worth 100 points. All exams will be with closed book and closed notes. Formula sheets and tables will be provided as needed. You **MUST** bring a picture ID card to each exam. Lectures, readings, class activities and homework problems will be the basis of these exams and they are *not* comprehensive. See schedule for exam dates.
2. You will be required to prepare three reports on "The Goal". The *typed* reports should be 3-5 pages long, and include your assessment of the material read. The total of three reports is worth 75 points. See schedule for report due dates. Late reports will not be accepted
3. Homework and Study problems will be assigned as we progress. Homework problems will either be collected and graded or a pop-quiz will be given on the content. The total of homeworks and quizzes is worth 75 points. Late homeworks will not be accepted and no make—ups for quizzes missed.

Your overall grade will be determined according to the following scheme:

D=270-314	C=315-359	B=360-404	A=405-450
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MAKE-UP EXAMS

Exams may not be missed for the convenience of the student. You now know the dates of the three exams and it is expected that you will schedule your other activities around these exam dates. If a major exam is missed (due to an *approved university absence* as defined in the Texas A&M University Regulations, <http://student-rules.tamu.edu/rules7.htm>), you must inform the instructor **no later than 24 hours after the exam**, and also you must furnish the instructor with **the original documentation why your absence should be excused**. If approved, you will be allowed take a make-up exam. In general, make-up exams will be administered **within a week** following the original exam day. Any exam (regular or make-up) missed without an approved excuse will be assigned a grade of *zero*.

GENERAL Each student is responsible for taking class notes and completing assigned work on time. It is strongly suggested that you plan to attend every class during the semester. No special consideration will be given for work missed due to unexcused absences.

Please note that it is necessary for you to adhere to the established university policy of NO BEVERAGES, FOOD, TOBACCO PRODUCTS OR ANIMALS (unless approved) within the classrooms.

SCHOLASTIC DISHONESTY The *Texas A&M University Regulations* define several categories of Scholastic Dishonesty. (1) Acquiring or attempting to acquire information (*this includes observing the work of others during an exam*); (2) Providing information on homework, quizzes or exams; (3) Plagiarism; (4) Conspiracy to commit any of the above; (5) Fabrication of Information; and (6) Violation of Departmental or College policies. The University definition of Scholastic Dishonesty will be strictly adhered to.

STUDENTS WITH DISABILITIES If you feel you are entitled to special accommodations because of a disability, please see the professor within the first two weeks of classes.

TENTATIVE COURSE SCHEDULE

Week of	Mon	Tue	Wed	Thu	Fri
15-Jan			Ch 1 - Introduction		
22-Jan	Ch 2 - Inventory Control		Ch 2 - Inventory Control		
29-Jan	Ch 2 - Inventory Control The Goal Report 1 (parts 1-16)		Ch 2 - Inventory Control		
5-Feb	Ch 2 - Inventory Control		Ch 3 - The MRP Crusade		
12-Feb	Ch 3 - The MRP Crusade The Goal Report 2 (parts 16-29)		Ch 3 - The MRP Crusade		
19-Feb	Ch 4 - The JIT Revolution		EXAM 1 February 21		
26-Feb	Ch 5 - What Went Wrong, Ch 6 - A Science ... The Goal Report 3 (parts 30-40)		Review/ Discussion - The Goal		
5-Mar	Ch 7 - Basic Factory Dynamics		Ch 7 - Basic Factory Dynamics		
12-Mar	S P R I N G		B R E A K		
19-Mar	Ch 8 - Variability Basics		Ch 8 - Variability Basics		
26-Mar	Ch 8 - Variability Basics		EXAM 2 March 29		
2-Apr	Ch 9 - The Corrupting Influence of Variability		Ch 9 - The Corrupting Influence of Variability		
9-Apr	Ch 9 - The Corrupting Influence of Variability		Ch 9 - The Corrupting Influence of Variability		
16-Apr	Ch 10 - Push and Pull Production Systems		Ch 10 - Push and Pull Production Systems		
23-Apr	Ch 12 - Total Quality Manufacturing		Ch 13 - A Pull Planning Framework		
30-Apr	Ch 13 - A Pull Planning Framework		EXAM 3 is on Friday, May 4, at 7:30 AM.		